

INTERNATIONAL SEARCH REPORT

International Application No.
PCT/EP2004/007925

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H02P7/62 H02P21/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H02P

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	HORSTMANN D ET AL: "DIE STROMRICHTERNAHE ANTRIEBSREGELUNG DES STEUERGERÄTES FÜR BAHNAUTOMATISIERUNGSSYSTEME SIBAS 32" ELEKTRISCHE BAHNEN, OLDENBURG VERLAG. MÜNCHEN, DE, vol. 90, no. 11, 1 November 1992 (1992-11-01), pages 344-350, XP000311285 ISSN: 0013-5437 cited in the application the whole document	1

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☒ Further documents are listed in the continuation of box C.

☐ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *C* earlier document but published on or after the international filing date
- *L* document which may throw doubt on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (see specification)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

O document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

O document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

X document number of the same patent family

Date of the actual completion of the international search

15 November 2004

Date of mailing of the international search report

22/11/2004

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim no.
X	JAENECKE M ET AL: "DIREKTE SELBSTREGELUNG, EIN NEUARTIGES REGELVERFAHREN FUER TRAKTIONSANTRIEBE IM ERSTEINSATZ BEI DIESELELEKTRISCHEN LOKOMOTIVEN" ELEKTRISCHE BAHNEN, OLDENBURG VERLAG. MUNCHEN, DE, vol. 89, no. 3, March 1991 (1991-03), pages 79-87, XP000200273 ISSN: 0013-5437 cited in the application the whole document	1
X	BAADER U ET AL: "DIRECT SELF CONTROL (DSC) OF INVERTER-FED INDUCTION MACHINE: A BASIS FOR SPEED CONTROL WITHOUT SPEED MEASUREMENT" 1 May 1992 (1992-05-01), IEEE TRANSACTIONS ON INDUSTRY APPLICATIONS, IEEE INC. NEW YORK, US, PAGE(S) 581-588 , XP000306107 ISSN: 0093-9994 the whole document	1